

THOMSON
DELPHION

RESEARCH

PRODUCTS

INSIDE DELPHION

My Account | Products

Search: Quick/Number Boolean Advanced

The Delphion Integrated View

Get Now: ☒ PDF | [More choices...](#)Tools: Add to Work File: [Create new Wor...](#)View: [INPADOC](#) | Jump to: [Top](#)  Go to: [Derwent...](#)☒ [Ema...](#)

Title: JP3222257A2: MANUFACTURE OF LITHIUM ELECTRODE FOR LITHIUM BATTERY

Country: JP, Japan

Kind: A

Inventor: NAGaura TORU;
YOKOGAWA MASAaki;
NAKAO TOSHIHIKO;
SATO KATSUZO;

Assignee: SONY CORP.
[News, Profiles, Stocks and More about this company.](#)

Published / Filed: 1991-10-01 / 1990-01-25

Application Number: JP1990000015768

IPC Code: H01M 4/04; H01M 4/64

Priority Number: 1990-01-25 JP1990000015768

Abstract:

PURPOSE: To prevent the adhesion of lithium in a rolled state and the breakage of a lithium foil during operation up to battery assembly for efficient operation by press-attaching the lithium foil formed by extrusion directly to a metal collector foil before winding in a rolled state.

CONSTITUTION: A copper foil rolled substance 22 that a copper foil 21 is wound in a rolled state and an extruder 24 for a lithium foil 23 are prepared to have the one face of the copper foil 21, supplied from the copper foil rolled substance 22, and the desired-thickness lithium foil 23, extruded and molded from the extruder 24, faced in opposition, passed through a pair of pressure rollers 25, press-attached to each other and then wound in a rolled state. In this case, for making the lithium foil 23 thin up to a desired thickness, the lithium foil 23 from the extruder 24 is given cold rolling via 4-step rolls 26-29 and cold rolling mechanism 30. It is thus possible to prevent the adhesion of lithium in a rolled state and the breakage of the lithium during operation up to battery assembly for efficient operation.

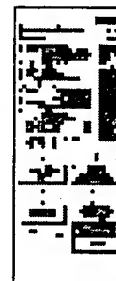
COPYRIGHT: (C)1991,JPO&Japio.

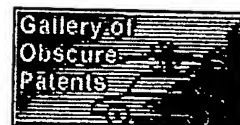
INPADOC None **Get Now:** [Family Legal Status Report](#)

Legal Status:

Family: [Show 2 known family members](#)

Other Abstract Info: DERABS C91-330151 DERC91-330151





[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion

[Research Subscriptions](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact](#)

THOMSON
*
DELPHION

RESEARCH

PRODUCTS

INSIDE DELPHION

My Account | Products

Search: Quick/Number Boolean Advanced

The Delphion Integrated View

Get Now: ☒ PDF | More choices...

Tools: Add to Work File: Create new Wor

View: INPADOC | Jump to: Top

Go to: Derwent...

✉ Email

🔍 Title: **JP3222257A2: MANUFACTURE OF LITHIUM ELECTRODE FOR LITHIUM BATTERY.**

🔍 Country: **JP Japan**

🔍 Kind: **A**

🔍 Inventor: **NAGAURA TORU;
YOKOGAWA MASAOKI;
NAKAO TOSHIHIKO;
SATO KATSUZO;**

🔍 Assignee: **SONY CORP**
[News, Profiles, Stocks and More about this company](#)

🔍 Published / Filed: **1991-10-01 / 1990-01-25**

🔍 Application Number: **JP1990000015768**

🔍 IPC Code: **H01M 4/04; H01M 4/64;**

🔍 Priority Number: **1990-01-25 JP1990000015768**

🔍 Abstract:

PURPOSE: To prevent the adhesion of lithium in a rolled state and the breakage of a lithium foil during operation up to battery assembly for efficient operation by press-attaching the lithium foil formed by extrusion directly to a metal collector foil before winding in a rolled state.

CONSTITUTION: A copper foil rolled substance 22 that a copper foil 21 is wound in a rolled state and an extruder 24 for a lithium foil 23 are prepared to have the one face of the copper foil 21, supplied from the copper foil rolled substance 22, and the desired-thickness lithium foil 23, extruded and molded from the extruder 24, faced in opposition, passed through a pair of pressure rollers 25, press-attached to each other and then wound in a rolled state. In this case, for making the lithium foil 23 thin up to a desired thickness, the lithium foil 23 from the extruder 24 is given cold rolling via 4-step rolls 26-29 and cold rolling mechanism 30. It is thus possible to prevent the adhesion of lithium in a rolled state and the breakage of the lithium during operation up to battery assembly for efficient operation.

COPYRIGHT: (C)1991,JPO&Japio

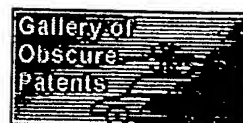
🔍 INPADOC: **None** Get Now: [Family Legal Status Report](#)

Legal Status:

🔍 Family: [Show 2 known family members](#)

🔍 Other Abstract Info: **DERABS C91-330151 DERC91-330151**





[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion . . . [Research Subscriptions](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact](#)



(19)

(11) Publication number:

03

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **02015768**(51) Intl. Cl.: **H01M 4/04 H01M 4/64**(22) Application date: **25.01.90**

(30) Priority:

(43) Date of application
publication: **01.10.91**(84) Designated contracting
states:(71) Applicant: **SONY CORP**(72) Inventor: **NAGAURA TORU
YOKOGAWA MASAOKI
NAKAO TOSHIHIKO
SATO KATSUZO**

(74) Representative:

**(54) MANUFACTURE OF
LITHIUM ELECTRODE FOR
LITHIUM BATTERY**

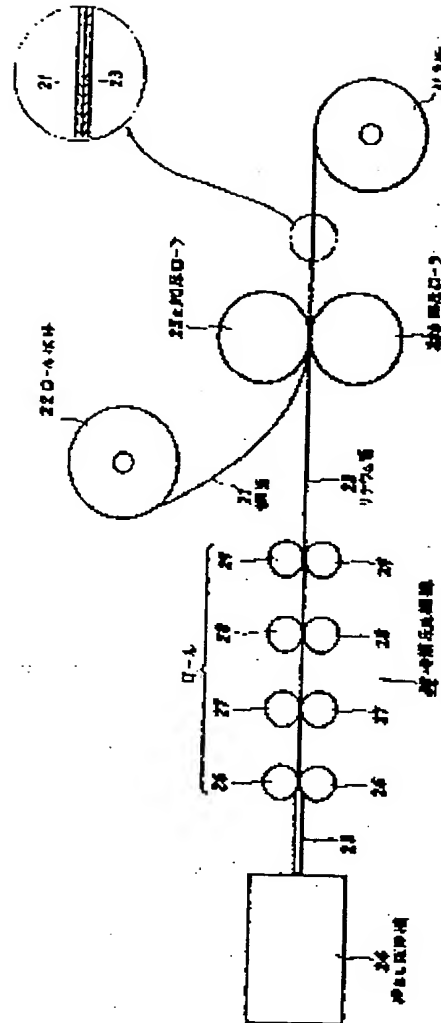
(57) Abstract:

PURPOSE: To prevent the adhesion of lithium in a rolled state and the breakage of a lithium foil during operation up to battery assembly for efficient operation by press-attaching the lithium foil formed by extrusion directly to a metal collector foil before winding in a rolled state.

CONSTITUTION: A copper foil rolled substance 22 that a copper foil 21 is wound in a rolled state and an extruder 24 for a lithium foil 23 are prepared to have the one face of the copper foil 21, supplied from the copper foil rolled substance 22, and the desired-thickness lithium foil 23, extruded and molded from the extruder 24, faced in opposition, passed through a pair of pressure rollers 25, press-attached to each other and then wound in a rolled

state. In this case, for making the lithium foil 23 thin up to a desired thickness, the lithium foil 23 from the extruder 24 is given cold rolling via 4-step rolls 26-29 and cold rolling mechanism 30. It is thus possible to prevent the adhesion of lithium in a rolled state and the breakage of the lithium during operation up to battery assembly for efficient operation.

COPYRIGHT: (C)1991,JPO&Japio



03222257 A



(19)

(11) Publication number:

03

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **02015768**(51) Intl. Cl.: **H01M 4/04 H01M 4/64**(22) Application date: **25.01.90**

(30) Priority: (43) Date of application publication: 01.10.91 (84) Designated contracting states:	(71) Applicant: SONY CORP (72) Inventor: NAGAURA TORU YOKOGAWA MASAOKI NAKAO TOSHIHIKO SATO KATSUZO (74) Representative:
--	--

**(54) MANUFACTURE OF
LITHIUM ELECTRODE FOR
LITHIUM BATTERY**

(57) Abstract:

PURPOSE: To prevent the adhesion of lithium in a rolled state and the breakage of a lithium foil during operation up to battery assembly for efficient operation by press-attaching the lithium foil formed by extrusion directly to a metal collector foil before winding in a rolled state.

CONSTITUTION: A copper foil rolled substance 22 that a copper foil 21 is wound in a rolled state and an extruder 24 for a lithium foil 23 are prepared to have the one face of the copper foil 21, supplied from the copper foil rolled substance 22, and the desired-thickness lithium foil 23, extruded and molded from the extruder 24, faced in opposition, passed through a pair of pressure rollers 25, press-attached to each other and then wound in a rolled

state. In this case, for making the lithium foil 23 thin up to a desired thickness, the lithium foil 23 from the extruder 24 is given cold rolling via 4-step rolls 26-29 and cold rolling mechanism 30. It is thus possible to prevent the adhesion of lithium in a rolled state and the breakage of the lithium during operation up to battery assembly for efficient operation.

COPYRIGHT: (C)1991,JPO&Japio

